AMENDMENT TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Cancelled).
- (Currently Amended) A filter as in claim +7 wherein the inlet is coaxial
 with the filter
- (Currently Amended) A filter as in claim +7 wherein the end surface includes a rim area of potting material, wherein the rim area is devoid of the open ends of the fibers and the rim has a width no greater on average than 0.508 mm.
- 4. (Currently Amended) A filter as in claim +7 wherein the end surface includes a rim of potting material devoid of the open ends of the fibers and the rim has an average width in a range of 0.025 mm to 0.508 mm.
- (Currently Amended) A filter as in claim +7 wherein the end section is an
 end of a stem of the bundle extending outward from a disk of the potting material.
 - 6. (Original) A filter as in claim 5 wherein the disk is fitted into the cap and the cap is mounted on a cylindrical tube housing the bundle.
 - (Currently Amended) A filter for an extracorporeal blood circuit comprising:

a bundle of hollow fibers having an end section encased in a potting material, wherein said end section further comprises a stem of fibers and potting material extending from a disk of the potting material, wherein the stem of fibers and potting

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material has an outside diameter along an entire length of the stem, and the stem outside

diameter is substantially narrower than an outside diameter of the disk of potting

material; and

an end surface of the stem includes open ends of the fibers distributed throughout

the end surface including open ends proximate to a perimeter of the end surface,

the stem including a stem side surface substantially perpendicular to the end

surface of the stem;

a filter housing through which extends said bundle;

a filter housing cap at a first end of said the filter housing, wherein the disk of the

potting material is sealed to the filter housing cap;

a filter header cap including an inlet connectable to a blood line and an open end,

said filter header cap including a cap side surface substantially parallel to the stem side

surface, said cap side surface abuts the stem side surface, and at least one of the cap side

surface and stem side surface is tapered along the abutment, wherein the filter header cap

is sealed to the filter housing cap, and

the filter housing including a second end having an outlet connectable to a blood

line,

wherein an inside diameter of the housing is substantially greater than the an-stem

outside diameter of the stem.

8. (Previously Presented) A filter as in claim 7 wherein the end surface

includes a rim of potting material devoid of the open ends of the fibers and the rim has an

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average width in a range of 0.025 mm to 0.508 mm.

 (Original) A filter as in claim 7 wherein the open end of the filter header cap forms an interference fit on the side of the stem.

 (Original) A filter as in claim 9 wherein a diameter of the stem is greater than an inner circumference of the filter header cap which seals against the stem in a range of 0.025 mm to 1.27 mm.

 (Original) A filter as in claim 7 wherein a gap between the end surface and an opposing interior surface of the filter header cap is within a range of 0.381 mm to
 1.016 mm.

12. (Original) A filter as in claim 7 wherein a diameter of the end surface is no greater than four times an internal passage diameter of the blood line.

(Original) A filter as in claim 7 wherein the end surface has exposed
 potting material covering less than 50 percent of a total surface area of the end surface.

14. (Original) A filter as in claim 7 wherein a gap between the end surface and an opposing interior of the filter header cap is less than ten percent of a diameter of the end surface.

 (Currently Amended) A filter as in claim 7 wherein the filter header cap is sealed to the filter housing cap.

16. (Cancelled).

17. (Currently Amended) A filter for an extracorporeal blood circuit comprising:

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a bundle of hollow fibers having an end section encased in a potting material,

wherein said end section further comprises a stem of fibers and potting material

extending from a disk of the potting material, wherein the stem of fibers and potting

material has an outside diameter along an entire length of the stem, and the stem outside

diameter is substantially narrower than an outside diameter of the disk of potting

material:

an end surface of the stem includes open ends of the fibers distributed throughout

the end surface including open ends proximate to a perimeter of the end surface,

the stem including a stem side surface substantially transverse to the end surface

of the stem;

a filter housing through which extends said bundle;

a filter housing cap at a first end of said filter housing, wherein the disk of the

potting material is sealed to the filter housing cap;

a filter header cap including an inlet connectable to a blood line and an open end,

said filter head cap including a cap side surface substantially parallel to the stem side

surface, said cap side surface abuts the stem side surface, and at least one of the cap side

surface and stem side surface is tapered along the abutment, wherein the filter header cap

is sealed to the filter housing cap, and

the housing including a second end having an outlet connectable to a blood line,

wherein the disk is a ring of potting material around the bundle of hollow fibers

and substantially devoid of said fibers.

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